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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/842,255	04/26/2001	Yoshihiro Kayano	2001_0474A	7526
513 75	7590 12/16/2003		EXAMINER	
WENDEROTH, LIND & PONACK, L.L.P.			FONTAINE, MONICA A	
2033 K STREET N. W. SUITE 800 WASHINGTON, DC 20006-1021			ART UNIT	PAPER NUMBER
			1732	
			DATE MAILED: 12/16/2003	3

Please find below and/or attached an Office communication concerning this application or proceeding.

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Examiner		Application No.	Applicant(s)				
Monica A Fontaine 1732		09/842,255	KAYANO ET AL.				
The MAILING DATE of this communication appears on the cover sh et with th correspond nee address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of team may be available used the provision of 37 CFR 1.13(d), in ne event, however, may a reply be timely fired other SIX (e) MCNTTS from the mailing date of this communication. False in the provision of the provision of the state of the communication of the SIX (e) MCNTTS from the mailing date of this communication. False to reply signification the mailing date of this communication. False to reply within the set of extended period for reply will, by abustle, cause the application to become MANACONED G5 U.S. (1313). False to reply within the set of extended period for reply will, by abustle, cause the application to become MANACONED G5 U.S. (1313). Responsive to communication(s) filled on 02 October 2003. Status 1) Responsive to communication(s) filled on 02 October 2003. 2a) This action is FINAL. 2b This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 5.27 is/are pending in the application. 4) Of the above claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 8.18 is/are allowed. 9) Claim(s) is/are objected to by the Examiner. 10) The specification is objected to by the Examiner. 10) The proper is a subject to restriction and/or election requirement. Application Papers. 9) The specification is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 and 120 12) All b) Some *c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received. 1. Certified copies of the priority d	Office Action Summary	Examiner	Art Unit				
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DETAILED ACTION

This office action is in response to the Amendment filed 2 October 2003.

The following rejections have been overcome:

A. 35 USC 102(b) as anticipated by Vecchiarino et al. (U.S. Patent 5,799,385),

hereafter "Vecchiarino": Claims 5-7

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 5-7 and 19-21 are rejected under 35 U.S.C. 102(a) as being anticipated by Keller et al. (U.S. Patent 6,063,315). Regarding Claim 5, Keller et al., hereafter "Keller," show that it is known to carry out a method for injection-molding a molded article having a hollow portion by means of an injection-molding apparatus (Abstract), said apparatus comprising a mold assembly having a first molten resin injection portion for injecting a first molten thermoplastic resin into a cavity of the mold assembly (Figure 4, element 32), a second molten resin injection portion for injecting a second molten thermoplastic resin into the cavity of the mold assembly (Figure 4, element 34), and a pressurized fluid introducing portion for introducing a pressurized fluid into the second molten thermoplastic resin injected into the cavity (Figure 4, element 40), and a first injection cylinder communicating with the first molten resin injection portion and a second

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injection cylinder communicating with the second molten resin injection portion (Figure 4, elements 76, 32), said method comprising the steps of injecting the first molten thermoplastic resin from the first injection cylinder into the cavity through the first molten resin injection portion (Column 3, lines 1-4), initiating injection of the second molten thermoplastic resin from the second cylinder into the cavity through the second injection portion, without bringing the second molten thermoplastic resin into contact with the first molten thermoplastic resin injected into the cavity during said injecting the first molten thermoplastic resin into the cavity or after the completion of said injecting the first molten thermoplastic resin into the cavity (Column 3, lines 5-10; Column 8, lines 24-35; Column 14, lines 49-60), and introducing the pressurized fluid into the second molten thermoplastic resin in the cavity from the pressurized fluid introducing portion during said injecting the second molten thermoplastic resin into the cavity or after completion of injection thereof to, to thereby form the hollow portion inside the second thermoplastic resin (Column 4, lines 9-17, 46-52).

Regarding Claim 6, Keller shows the process as claimed as discussed in the rejection of Claim 5 above, including a method wherein the first molten thermoplastic resin comes into contact with the second molten thermoplastic resin in said introducing the pressurized fluid into the second molten thermoplastic resin in the cavity, the first molten thermoplastic resin being in a molten state when the first molten thermoplastic resin comes into contact with the second thermoplastic resin (Column 3, lines 60-67; Column 4, lines 1-2, 11-17, 33-52).

Regarding Claim 7, Keller shows the process as claimed as discussed in the rejection of Claim 5 above, including a method wherein a portion of the first molten thermoplastic resin comes in contact with the second molten thermoplastic resin in said introducing the pressurized

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fluid into the second molten thermoplastic resin in the cavity, the portion of the first molten thermoplastic resin coming into a re-melted state due to the contact thereof with the second molten thermoplastic resin (Column 3, lines 60-67; Column 4, lines 1-2, 11-17, 33-52).

Regarding Claim 19, Keller shows that it is known to carry out a method for injectionmolding a molded article having a hollow portion by means of an injection-molding apparatus (Abstract), said method comprising providing a mold assembly having a cavity disposed between a first molten resin injection portion and a second molten resin injection portion, and a pressurized fluid introducing portion provided at an opening of the cavity (Figure 4, elements 32, 34, 40), injecting the first molten thermoplastic resin from a first injection cylinder into the cavity through the first molten resin injection portion (Column 3, lines 1-4), injecting a second molten thermoplastic resin from a second cylinder into the cavity through the second injection portion, without bringing the second molten thermoplastic resin into contact with the first molten thermoplastic resin injected into the cavity during said injecting the first molten thermoplastic resin into the cavity or after the completion of said injecting the first molten thermoplastic resin into the cavity (Column 3, lines 5-10; Column 8, lines 24-35; Column 14, lines 49-60), and introducing the pressurized fluid into the second molten thermoplastic resin in the cavity from the pressurized fluid introducing portion during said injecting the second molten thermoplastic resin into the cavity or after completion of injection thereof to, to thereby form the hollow portion inside the second thermoplastic resin (Column 4, lines 9-17, 46-52).

Regarding Claim 20, Keller shows the process as claimed as discussed in the rejection of Claim 19 above, including a method wherein the first molten thermoplastic resin comes into

contact with the second molten thermoplastic resin in said introducing the pressurized fluid into the second molten thermoplastic resin in the cavity, the first molten thermoplastic resin being in a molten state when the first molten thermoplastic resin comes into contact with the second thermoplastic resin (Column 3, lines 60-67; Column 4, lines 1-2, 11-17, 33-52).

Regarding Claim 21, Keller shows the process as claimed as discussed in the rejection of Claim 19 above, including a method wherein a portion of the first molten thermoplastic resin comes in contact with the second molten thermoplastic resin in said introducing the pressurized fluid into the second molten thermoplastic resin in the cavity, the portion of the first molten thermoplastic resin coming into a re-melted state due to the contact thereof with the second molten thermoplastic resin (Column 3, lines 60-67; Column 4, lines 1-2, 11-17, 33-52).

Response to Arguments

Applicant's arguments, see Paper No. 7, filed 2 October 2003, with respect to the rejection(s) of claim(s) 5-7 under Vecchiarino have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Keller.

Allowable Subject Matter

The following is stated in Paper No. 6, however it is repeated here for applicant's convenience.

Claims 8-18 are allowed.

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The following is an examiner's statement of reasons for allowance: Regarding Claims 812, the prior art of record neither teaches nor suggests the claimed injection molding method wherein a movable partition member is initially disposed between a first cavity portion that the first thermoplastic resin can occupy and a second cavity portion that the second thermoplastic resin can occupy; after injection of the first thermoplastic resin, the movable partition is extracted from the cavity, and then the second thermoplastic resin is injected into the cavity, followed by introduction of a pressurized fluid into the second thermoplastic resin. Regarding Claims 13-18, the prior art of record neither teaches nor suggests the claimed injection molding method wherein a movable partition member is initially disposed between a first cavity portion that the first thermoplastic resin can occupy and a second cavity portion that the second thermoplastic resin can occupy, after the second thermoplastic resin is injected, followed by the introduction of a pressurized fluid into the second thermoplastic resin, the movable partition member is extracted from the cavity, then the first molten thermoplastic resin is injected into the cavity.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monica A Fontaine whose telephone number is 703-305-7239. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Colaianni can be reached on 703-305-5493. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9310.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

new phone number after 12/22/03/198 December 4, 2003